

CLAIMS

1. A tire comprising at least one reinforcement structure of carcass type anchored
5 on either side of the tire in a bead, the base of which is intended to be
mounted on a rim seat, a crown reinforcement, each bead being extended
radially towards the outside by a sidewall, the sidewalls joining a tread radially
towards the outside, the reinforcement structure comprising:
-a first filament forming on one hand at the level of the crown and the sidewalls a
10 series of transverse portions extending substantially from one bead of the tire to
the other, and on the other hand, at the level of the beads, U-shaped
connections joining two successive transverse portions of the first filament,
-a second filament forming on one hand at the level of the crown and the sidewalls
a series of transverse portions extending substantially from one bead of the tire
15 to the other, and on the other hand, at the level of the beads, U-shaped
connections joining two successive transverse portions of the second filament,
-the respective paths of the first and second filaments being arranged such that,
between the crown and the bead, a group of filaments formed by a first and a
second adjacent filaments forms at least a portion of substantially parallel
20 paths.
2. The tire of claim 1, in which the portions of substantially parallel paths
represent at least substantially 25% of the total path of the filaments between
the crown and the anchoring zone.
- 25 3. The tire of claim 2, in which the portions of substantially parallel paths
represent between substantially 30% and 80% of the total path of the filaments
between the crown and the anchoring zone.
- 30 4. The tire of claim 1, in which the portions of substantially parallel paths are
provided in the sidewall, substantially radially externally to the anchoring zone.

5. The tire of claim 1, in which the portions of substantially parallel paths are provided substantially radially externally to the equator of the sidewall.
6. The tire of claim 1, comprising a third filament forming on one hand, at the level of the crown and the sidewalls, a series of transverse portions extending substantially from one bead of the tire to the other, and on the other hand, at the level of the beads, U-shaped connections joining two successive transverse portions of the third filament, the respective paths of the first, second and third filaments being arranged such that, between the crown and the bead, a group of filaments formed by a first, a second and a third adjacent filament forms at least a portion of a substantially parallel path.
7. The tire of claim 1, in which the portions of substantially parallel paths follow substantially geodesic trajectories.
8. The tire of claim 1, in which each group of filaments has a "forward" section and a "return" section, and in which said "forward" and "return" sections of at least two distinct groups cross to form a mesh of cords.
9. The tire of claim 1, in which at least one arrangement of cords along a substantially circumferential path is arranged substantially adjacent to said reinforcement structure at the level of the bead.
10. The tire of claim 1, in which a bead comprises a bead wire around which a portion of the cords cooperates.
11. A tire comprising at least one reinforcement structure of carcass type anchored on either side of the tire in a bead, the base of which is intended to be mounted on a rim seat, a crown reinforcement, each bead being extended radially towards the outside by a sidewall, the sidewalls joining a tread radially towards the outside, the reinforcement structure comprising:
 - a first filament forming on one hand at the level of the crown and the sidewalls a series of transverse portions extending substantially from one

bead of the tire to the other, and on the other hand, at the level of the beads, U-shaped connections joining two successive transverse portions of the first filament,

-a second filament forming at the level of the crown and the sidewalls a series of transverse portions extending substantially from one bead of the tire to the other, comprising free ends being arranged on either side of the tire in the zone of each of the beads,

-the respective paths of the first and second filaments being arranged such that, between the crown and the bead, a group of filaments formed by a first and a second adjacent filament forms at least a portion of substantially parallel paths.

12. The tire of claim 11, in which the portions of substantially parallel paths follow substantially geodesic trajectories.

13. The tire of claim 11, in which each group of filaments has a "forward" section and a "return" section, and in which said "forward" and "return" sections of at least two distinct groups cross to form a mesh of cords.

14. The tire of claim 11, in which at least one arrangement of cords along a substantially circumferential path is arranged substantially adjacent to said reinforcement structure at the level of the bead.

15. The tire of claim 11, in which a bead comprises a bead wire around which a portion of the cords cooperates.